

A curing method and material compositions having dental and other applications

ABSTRACT

This invention provides a method and material compositions for producing objects containing in whole, or in part, biomedical polymers, especially those having dental use. Microwave sensitive material compositions are injected under pressure into a mold, the mold containing a replica of a body tissue or tissues. While hydraulic pressure is maintained on the material, a microwave source emits metered electromagnetic energy for hardening the material in the 3-dimensionally defined space. For dental and other applications, the mold making, injection and hardening are done sequentially to rapidly produce an object which accurately fits the mold.